09424686

RAW SEQUENCE LISTING   DATE: 01/02/2003
PATENT APPLICATION: US/09/424,686B   TIME: 13:23:05

Input Set : N:\AMC\6497882.txt
Output Set: N:\CRF4\01022003\I424686B.raw

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 4 <110> APPLICANT: Hagen, Gustav
 5         Siegmund, Hans-Ulrich
 6         Weichel, Walter
 7         Wick, Maresa
 8         Zubov, Dmitry
10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and
11         Therapeutic Use
13 <130> FILE REFERENCE: Bayer 10,203
15 <140> CURRENT APPLICATION NUMBER: US 09/424,686B
17 <141> CURRENT FILING DATE: 1999-11-29
19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468
21 <151> PRIOR FILING DATE: 1998-06-09
23 <160> NUMBER OF SEQ ID NOS: 7
25 <170> SOFTWARE: Microsoft Word
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ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

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640 <210> SEQ ID NO: 7
641 <211> LENGTH: 2089
642 <212> TYPE: DNA
643 <213> ORGANISM: Homo sapiens
645 <400> SEQUENCE: 7
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650 gctgacgtcc agactccgct tcatccccaa gcctgacggg ctgcggccga ttgtgaacat 180
652 ggactacgtc gtgggagcca gaacgttccg cagagaaaag agggccgagc gtctcacctc 240
654 gagggtgaag gcactgttca gcgtgctcaa ctacgagcgg gcgcggcgcc ccggcctcct 300
656 gggcgcctct gtgctgggcc tggacgatat ccacagggcc tggcgcacct tcgtgctgcg 360
658 tgtgcgggcc caggacccgc cgcctgagct gtactttgtc aaggtggatg tgacgggcgc 420
660 gtacgacacc atcccccagg acaggctcac ggaggtcatc gccagcatca tcaaacccca 480
662 gaacacgtac tgcgtgcgtc ggtatgccgt ggtccagaag gccgcccatg ggcacgtccg 540
664 caaggccttc aagagccacg tctctacctt gacagacctc cagccgtaca tgcgacagtt 600
666 cgtggctcac ctgcaggaga ccagcccgct gaggggtgcc gtcgtcatcg agcagagctc 660
668 ctccctgaat gaggccagca gtggcctctt cgacgtcttc ctacgcttca tgtgccacca 720
670 cgccgtgcgc atcaggggca agtcctacgt ccagtgccag gggatcccgc agggctccat 780
672 cctctccacg ctgctctgca gcctgtgcta cggcgacatg gagaacaagc tgtttgcggg 840
674 gattcggcgg gacgggctgc tcctgcgttt ggtggatgat ttcttgttgg tgacacctca 900
676 cctcacccac gcgaaaacct tcctcaggac cctggtccga ggtgtccctg agtatggctg 960
678 cgtggtgaac ttgcggaaga cagtggtgaa cttccctgta gaagacgagg ccctgggtgg 1020
680 cacggctttt gttcagatgc cggcccacgg cctattcccc tggtgcggcc tgctgctgga 1080
682 tacccggacc ctggaggtgc agagcgacta ctccagctat gcccggacct ccatcagagc 1140
684 cagtctcacc ttcaaccgcg gcttcaaggc tgggaggaac atgcgtcgca aactctttgg 1200
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RAW SEQUENCE LISTING   DATE: 01/02/2003
PATENT APPLICATION: US/09/424,686B   TIME: 13:23:06

Input Set : **N:\AMC\6497882.txt**
Output Set: **N:\CRF4\01022003\I424686B.raw**

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688 ggtgtgcacc aacatctaca agatcctcct gctgcaggcg tacaggtttc acgcatgcgt 1320
690 gctgcagctc ccatttcatc agcaagtttg gaagaacccc acatttttcc tgcgcgtcat 1380
692 ctctgacacg gcctccctct gctactccat cctgaaagcc aagaacgcag gtatgtgcag 1440
694 gtgcctggcc tcagtggcag cagtgcctgc ctgctggtgt tagtgtgtca ggagactgag 1500
696 tgaatctggg cttaggaagt tcttacccct tttcgcatca ggaagtggtt taacccaacc 1560
698 actgtcaggc tcgtctgccc gccctctcgt ggggtgagca gagcacctga tggaagggac 1620
700 aggagctgtc tgggagctgc catccttccc accttgctct gcctggggaa gcgctggggg 1680
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704 cctgtggtgg gatttgggctg tctcccgtcc atggcactta gggcccttgt gcaaacccag 1800
706 gccaagggct taggaggagg ccaggcccag gctaccccac ccctctcagg agcagaggcc 1860
708 gcgtatcacc acgacagagc cccgcgccgt cctctgcttc ccagtcaccg tcctctgccc 1920
710 ctggacactt tgtccagcat cagggaggtt tctgatccgt ctgaaattca agccatgtcg 1980
712 aacctgcggt cctgagctta acagcttcta ctttctgttc tttctgtgtt gtggagaccc 2040
714 tgagaaggac cctgggagct ctgggaattt ggagtgacca aaggtgtgc        2089
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E--> 719 (13)

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/424,686B**

DATE: 01/02/2003
TIME: 13:23:07

Input Set : **N:\AMC\6497882.txt**
Output Set: **N:\CRF4\01022003\I424686B.raw**

L:719 M:254 E: No. of Bases conflict, this line has no nucleotides.

09424686

1600

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 4 <110> APPLICANT: Hagen, Gustav
 5         Siegmund, Hans-Ulrich
 6         Weichel, Walter
 7         Wick, Maresa
 8         Zubov, Dmitry
10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and
11         Therapeutic Use
13 <130> FILE REFERENCE: Bayer 10,203
15 <140> CURRENT APPLICATION NUMBER: US 09/424,686B
17 <141> CURRENT FILING DATE: 1999-11-29
19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468
21 <151> PRIOR FILING DATE: 1998-06-09
23 <160> NUMBER OF SEQ ID NOS: 7
25 <170> SOFTWARE: Microsoft Word
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 4042
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
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37 aggtgctgcc gctggccacg ttcgtgcggc gcctggggcc ccagggctgg cggctggtgc 180
39 agcgcgggga cccggcggct ttccgcgcgc tggtggccca gtgcctggtg tgcgtgccct 240
41 gggacgcacg gccgcccccc gccgcccct ccttccgcca ggtgtcctgc ctgaaggagc 300
43 tggtggcccg agtgctgcag aggctgtgcg agcgcggcgc gaagaacgtg ctggccttcg 360
45 gcttcgcgct gctggacggg gcccgcgggg gccccccga ggccttcacc accagcgtgc 420
47 gcagctacct gcccaacacg gtgaccgacg cactgcgggg gagcggggcg tggggctgc 480
49 tgctgcgccg cgtgggcgac gacgtgctgg ttcacctgct ggcacgctgc gcgctctttg 540
51 tgctggtggc tcccagctgc gcctaccagg tgtgcgggcc gccgctgtac cagctcggcg 600
53 ctgccactca ggcccggccc ccgccacacg ctagtggacc ccgaaggcgt ctgggatgcg 660
55 aacgggcctg gaaccatagc gtcagggagg ccggggtccc cctgggcctg ccagccccgg 720
57 gtgcgaggag gcgcggggc agtgccagcc gaagtctgcc gttgcccaag aggcccaggc 780
59 gtggcgctgc ccctgagccg gagcggacgc ccgttgggca ggggtcctgg gcccacccgg 840
61 gcaggacgcg tggaccgagt gaccgtggtt tctgtgtggt gtcacctgcc agacccgccg 900
63 aagaagccac ctctttggag ggtgcgctct ctggcacgcg ccactcccac ccatccgtgg 960
65 gccgccagca ccacgcgggc cccccatcca catcgcggcc accacgtccc tgggacacgc 1020
67 cttgtccccc ggtgtacgcc gagaccaagc acttcctcta ctcctcaggc gacaaggagc 1080
69 agctgcggcc ctccttccta ctcagctctc tgaggcccag cctgactggc gctcggaggc 1140
71 tcgtggagac catctttctg ggttccaggc cctggatgcc agggactccc cgcaggttgc 1200
73 cccgcctgcc ccagcgctac tggcaaatgc ggcccctgtt tctggagctg cttgggaacc 1260
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77 ccccagcagc cggtgtctgt gcccgggaga agccccaggg ctctgtggcg gcccccgagg 1380
79 aggaggacac agaccccgt cgcctggtgc agctgctccg ccagcacagc agcccctggc 1440
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 83 ccaggcacaa cgaacgccgc ttcctcagga acaccaagaa gttcatctcc ctggggaagc 1560
 85 atgccaagct ctcgctgcag gagctgacgt ggaagatgag cgtgcgggac tgcgcttggc 1620
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 93 tctggagcaa gttgcaaagc attggaatca gacagcactt gaagagggtg cagctgcggg 1860
 95 agctgtcgga agcagaggtc aggcagcatc gggaagccag gcccgccctg ctgacgtcca 1920
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123 cgaaaacctt cctcaggacc ctggtccgag gtgtccctga gtatggctgc gtggtgaact 2760
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133 tgaagtgtca cagcctgttt ctggatttgc aggtgaacag cctccagacg gtgtgcacca 3060
135 acatctacaa gatcctcctg ctgcaggcgt acaggtttca cgcatgtgtg ctgcagctcc 3120
137 catttcatca gcaagtttgg aagaacccca cattttttcct gcgcgtcatc tctgacacgg 3180
139 cctccctctg ctactccatc ctgaaagcca agaacgcagg gatgtcgctg ggggccaagg 3240
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155 aagggctgag tgtccagcac acctgccgtc ttcacttccc cacaggctgg cgctcggctc 3720
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171 <210> SEQ ID NO: 2
172 <211> LENGTH: 1132
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 2
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181                      20                  25                  30
183      Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg
184              35                  40                  45
186      Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro
187          50                  55                  60
189      Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Ser Cys Leu Lys Glu Leu
190      65                  70                  75                  80
192      Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys Asn Val
193                      85                  90                  95
195      Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly Pro Pro
196              100                 105                 110
198      Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Thr
199              115                 120                 125
201      Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg Arg Val
202          130                 135                 140
204      Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu Phe Val
205      145                 150                 155                 160
207      Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro Leu Tyr
208                  165                 170                 175
210      Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala Ser Gly
211                  180                 185                 190
213      Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser Val Arg
214              195                 200                 205
216      Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg Arg Arg
217          210                 215                 220
219      Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro Arg Arg
220      225                 230                 235                 240
222      Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly Ser Trp
223                  245                 250                 255
225      Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe Cys Val
226              260                 265                 270
228      Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu Gly Ala
229              275                 280                 285
231      Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln His His
232          290                 295                 300
234      Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp Thr Pro
235      305                 310                 315                 320
237      Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser Ser Gly
238                  325                 330                 335
240      Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu Arg Pro
241              340                 345                 350
243      Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu Gly Ser
244          355                 360                 365
246      Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu Pro Gln
247          370                 375                 380
249      Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly Asn His
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RAW SEQUENCE LISTING   DATE: 01/02/2003
PATENT APPLICATION: **US/09/424,686B**   TIME: 13:28:38

Input Set : **N:\AMC\6497882.txt**
Output Set: **N:\CRF4\01022003\I424686B.raw**

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253                     405                     410                     415
255     Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys Pro Gln
256                     420                     425                     430
258     Gly Ser Val Ala Ala Pro Glu Glu Glu Asp Thr Asp Pro Arg Arg Leu
259                     435                     440                     445
261     Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr Gly Phe
262             450                     455                     460
264     Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp Gly Ser
265     465                     470                     475                     480
267     Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe Ile Ser
268                     485                     490                     495
270     Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp Lys Met
271             500                     505                     510
273     Ser Val Arg Asp Cys Ala Trp Leu Arg Arg Ser Pro Gly Val Gly Cys
274             515                     520                     525
276     Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala Lys Phe
277             530                     535                     540
279     Leu His Trp Leu Met Ser Val Tyr Val Val Glu Leu Leu Arg Ser Phe
280     545                     550                     555                     560
282     Phe Tyr Val Thr Glu Thr Thr Phe Gln Lys Asn Arg Leu Phe Phe Tyr
283                     565                     570                     575
285     Arg Lys Ser Val Trp Ser Lys Leu Gln Ser Ile Gly Ile Arg Gln His
286             580                     585                     590
288     Leu Lys Arg Val Gln Leu Arg Glu Leu Ser Glu Ala Glu Val Arg Gln
289             595                     600                     605
291     His Arg Glu Ala Arg Pro Ala Leu Leu Thr Ser Arg Leu Arg Phe Ile
292             610                     615                     620
294     Pro Lys Pro Asp Gly Leu Arg Pro Ile Val Asn Met Asp Tyr Val Val
295     625                     630                     635                     640
297     Gly Ala Arg Thr Phe Arg Arg Glu Lys Arg Ala Glu Arg Leu Thr Ser
298                     645                     650                     655
300     Arg Val Lys Ala Leu Phe Ser Val Leu Asn Tyr Glu Arg Ala Arg Arg
301                     660                     665                     670
303     Pro Gly Leu Leu Gly Ala Ser Val Leu Gly Leu Asp Asp Ile His Arg
304             675                     680                     685
306     Ala Trp Arg Thr Phe Val Leu Arg Val Arg Ala Gln Asp Pro Pro Pro
307             690                     695                     700
309     Glu Leu Tyr Phe Val Lys Val Asp Val Thr Gly Ala Tyr Asp Thr Ile
310     705                     710                     715                     720
312     Pro Gln Asp Arg Leu Thr Glu Val Ile Ala Ser Ile Ile Lys Pro Gln
313                     725                     730                     735
315     Asn Thr Tyr Cys Val Arg Arg Tyr Ala Val Val Gln Lys Ala Ala His
316                     740                     745                     750
318     Gly His Val Arg Lys Ala Phe Lys Ser His Val Ser Thr Leu Thr Asp
319             755                     760                     765
321     Leu Gln Pro Tyr Met Arg Gln Phe Val Ala His Leu Gln Glu Thr Ser
322             770                     775                     780
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324    Pro Leu Arg Asp Ala Val Val Ile Glu Gln Ser Ser Ser Leu Asn Glu
325    785             790             795                 800
327    Ala Ser Ser Gly Leu Phe Asp Val Phe Leu Arg Phe Met Cys His His
328            805             810             815
330    Ala Val Arg Ile Arg Gly Lys Ser Tyr Val Gln Cys Gln Gly Ile Pro
331            820             825             830
333    Gln Gly Ser Ile Leu Ser Thr Leu Leu Cys Ser Leu Cys Tyr Gly Asp
334            835             840             845
336    Met Glu Asn Lys Leu Phe-Ala Gly Ile Arg Arg Asp Gly Leu Leu Leu
337        850             855             860
339    Arg Leu Val Asp Asp Phe Leu Leu Val Thr Pro His Leu Thr His Ala
340    865             870             875                 880
342    Lys Thr Phe Leu Arg Thr Leu Val Arg Gly Val Pro Glu Tyr Gly Cys
343            885             890             895
345    Val Val Asn Leu Arg Lys Thr Val Val Asn Phe Pro Val Glu Asp Glu
346            900             905             910
348    Ala Leu Gly Gly Thr Ala Phe Val Gln Met Pro Ala His Gly Leu Phe
349            915             920             925
351    Pro Trp Cys Gly Leu Leu Leu Asp Thr Arg Thr Leu Glu Val Gln Ser
352        930             935             940
354    Asp Tyr Ser Ser Tyr Ala Arg Thr Ser Ile Arg Ala Ser Leu Thr Phe
355    945             950             955                 960
357    Asn Arg Gly Phe Lys Ala Gly Arg Asn Met Arg Arg Lys Leu Phe Gly
358            965             970             975
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361            980             985             990
363    Ser Leu Gln Thr Val Cys Thr Asn Ile Tyr Lys Ile Leu Leu Leu Gln
364            995             1000            1005
366    Ala Tyr Arg Phe His Ala Cys Val Leu Gln Leu Pro Phe His Gln Gln
367        1010            1015            1020
369    Val Trp Lys Asn Pro Thr Phe Phe Leu Arg Val Ile Ser Asp Thr Ala
370    1025            1030            1035            1040
372    Ser Leu Cys Tyr Ser Ile Leu Lys Ala Lys Asn Ala Gly Met Ser Leu
373            1045            1050            1055
375    Gly Ala Lys Gly Ala Ala Gly Pro Leu Pro Ser Glu Ala Val Gln Trp
376            1060            1065            1070
378    Leu Cys His Gln Ala Phe Leu Leu Lys Leu Thr Arg His Arg Val Thr
379            1075            1080            1085
381    Tyr Val Pro Leu Leu Gly Ser Leu Arg Thr Ala Gln Thr Gln Leu Ser
382        1090            1095            1100
384    Arg Lys Leu Pro Gly Thr Thr Leu Thr Ala Leu Glu Ala Ala Ala Asn
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388            1125            1130
390 <210> SEQ ID NO: 3
391 <211> LENGTH: 1153
392 <212> TYPE: DNA
393 <213> ORGANISM: Homo sapiens
395 <400> SEQUENCE: 3
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/424,686B**

DATE: 01/02/2003
TIME: 13:28:39

Input Set : **N:\AMC\6497882.txt**
Output Set: **N:\CRF4\01022003\I424686B.raw**